

## A. 発明の属する分野の分類(国際特許分類(IPC))

Int. Cl' H04L 12/28

## B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. Cl' H04L 12/28 他

## 最小限資料以外の資料で調査を行った分野に含まれるもの

日本国公開実用新案公報 1971-2000

日本国実用新案公報 1926-2000

## 国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

WPI(DIALOG), INSPEC(DIALOG), JICST ファイル(JOIS)

## C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
Y	IEEE TRANSACTIONS ON COMMUNICATIONS, Vol.43, NO.1, (JANUARY 1995), Jeffrey E.Wieselthier, et al., "Fixed-and Movable-Boundary Channel-Access Schemes for Integrated Voice/Data Wireless Networks", pages.64-74 (音声スロットとデータスロットを可変割当する構成)	1,2,4-7,31-35,54-57
Y	IEEE Std 802.11-1997, Part11:Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications, "9.MAC sublayer functional description", pages.71-99 (コンテンツ領域と非コンテンツ領域)	1,2,4,5,7,31,32,33,35,52,54,55,57

 C欄の続きにも文献が列挙されている。 パテントファミリーに関する別紙を参照。

## \* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示すもの

「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの

「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献(理由を付す)

「O」口頭による開示、使用、展示等に言及する文献

「P」国際出願日前で、かつ優先権の主張の基礎となる出願

## の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&amp;」同一パテントファミリー文献

## 国際調査を完了した日

31.08.00

## 国際調査報告の発送日

12.09.00

## 国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号 100-8915

東京都千代田区霞が関三丁目4番3号

## 特許庁審査官(権限のある職員)

猪瀬 隆広

5 X 9560



電話番号 03-3581-1101 内線 3594

C (続き) 関連すると認められる文献		関連する請求の範囲の番号
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	
Y	The Ninth IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC'98, Conference Proceedings, Volume 1 (September 8.1998), Chris Romans et al., "A medium access protocol for wireless LANs which supports isochronous and asynchronous traffic ", pages.147-152 (EP,924896,A1 の関連論文)	1,2,4,5,7,31,32,33,35,52,54,55,57
Y	US,5684791,A (NEC USA, Inc.) 04.11月.1997(04.11.97) ファミリーなし、第 10 欄第 50-55 行等 (CBR 領域の再送処理など参照可能。但し CBR 領域はランダムアクセス領域ではない)	6,34,56
A	1995 Fourth IEEE International Conference on Universal Personal Communications Record, (November 6 1995) H.Xie, et al., "Data Link Control Protocols for Wireless ATM Access Channels", pages.753-757 (上記 US,5684791,A の関連論文)	1-97
EX	EP,932277,A2 (SONY Corp.) 28.07月.1999(28.07.99) & JP,11-215135,A (同一出願人からの関連出願)	1,4,8,11
EX	EP,939510,A2 (SONY Corp.) 01.09月.1999(01.09.99) & JP,11-252090,A (同一出願人からの関連出願)	1,4,5
EX	EP,939523,A2 (SONY Corp.) 01.09月.1999(01.09.99) & JP,11-239114,A (同一出願人からの関連出願)	1,4,5
EX	EP,924896,A1 (Hewlett-Packard Company) 23.06月.1999 (23.06.99) ファミリーなし (コンテンツ領域と非コンテンツ領域と再送領域)	1,4
PA	IEEE VTS, 50th Vehicular Technology Conference (VTC'99), Volume 1, Takeo Nasu et al. "Hybrid-Coding and Code-Distinction for Wireless 1394 Home-Link", pages.507-511 (IEEE1394 の無線化システム)	1-97
PA	IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, Vol.45, NO.3 (AUGUST 1999), Stelios Koutroubinas et al., "A NEW EFFICIENT ACCESS PROTOCOL FOR INTEGRATING MULTIMEDIA SERVICES IN THE HOME ENVIRONMENT", pages.481-487 (等時性と非同期トラヒックの無線伝送に関するアクセスプロトコル)	1-97

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/03734

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl' H04L 12/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl' H04L 12/28 etc.Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Japanese Utility Model Laid Open Gazette 1971-2000  
Japanese Utility Model Publication Gazzette 1926-2000Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WPI (DIALOG), INSPEC (DIALOG), JICST FILE (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	IEEE TRANSACTIONS ON COMMUNICATIONS, Vol.43, NO.1, (JANUARY 1995), Jeffrey E. Wieselthier, et al., "Fixed-and Movable-Boundary Channel-Access Schemes for Integrated Voice/Data Wireless Networks", pages.64-74 (the system which allocates variably voice slots and data slots)	1,2,4-7,31-35, 54-57
Y	IEEE Std 802.11-1997, Part11:Wireless LAN Medium Access Control(MAC) and Physical Layer(PHY) specifications, "9.MAC sublayer functional description", pages.71-99 (contention region and non-contention region)	1,2,4,5,7,31, 32,33,35,52, 54,55,57
Y	The Ninth IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC'98, Conference Proceedings, Volume 1 (08 September, 1998), Chris Romans et al., "A medium access protocol for wireless LANs which supports isochronous and asynchronous traffic", pages.147-152 (or, the related paper to EP, 924896, A1)	1,2,4,5,7,31, 32,33,35,52, 54,55,57
Y	US, 5684791, A (NEC USA, Inc.), 04 November, 1997 (04.11.97) (Family: none) Column 10, lines 50 to 55, etc. (retransmission procedures	6,34,56

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
31 August, 2000 (31.08.00)Date of mailing of the international search report  
12 September, 2000 (12.09.00)Name and mailing address of the ISA/  
Japanese Patent OfficeAuthorized officer  
Examiner, Patent Office

5X/9560

Facsimile No.

Telephone No.

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International application No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	and the like in the CBR region can be of reference. The CBR region is, however, not the random access region.)	
A	1995 Fourth IEEE International Conference on Universal Personal Communications Record, (06 November, 1995) H.Xie, et al., "Data Link Control Protocols for Wireless ATM Access Channels", pages. 753-757 (or, the related paper to US, 5684791, A, mentioned above)	1-97
EX	EP, 932277, A2 (SONY Corp.), 28 July, 1999 (28.07.99) & JP, 11-215135, A (or, the related application from the same applicant)	1,4,8,11
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EX	EP, 939523, A2 (SONY Corp.), 01 September, 1999 (01.09.99) & JP, 11-239114, A (or, the related application from the same applicant)	1,4,5
EX	EP, 924896, A1 (Hewlett-Packard Company), 23 June, 1999 (23.06.99) (Family: none) (the contention region, non-contention region and retransmission region)	1,4
PA	IEEE VTS, 50th Vehicular Technology Conference (VTC'99), Volume 1, Takeo Nasu et al., "Hybrid-Coding and Code-Distinction for Wireless 1394 Home-Link", pages. 507-511 (the radio system for IEEE 1394)	1-97
PA	IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, Vol.45, No.3 (AUGUST 1999), Stelios Koutroubinas et al., "A NEW EFFICIENT ACCESS PROTOCOL FOR INTEGRATING MULTIMEDIA SERVICES IN THE HOME ENVIRONMENT", pages.481-487 (the access protocol on the radio transmission of isochronous and asynchronous traffic)	1-97

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search  
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EX	EP, 939523, A2 (SONY Corp.), 01 September, 1999 (01.09.99) & JP, 11-239114, A (or, the related application from the same applicant)	1,4,5
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